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**M** TO BE PAINTED

**MAY 7th**

Annual Spring Function Since 1910 Will Be Observed.

By E. C.

While we students of the Mines are being snowed under by the profs, with their oral exams and written exams, our "M" on Big Butte has crept through winter's coat of snow, and years for Easter rainment. Every spring, since the year 1910, when the "M" was first placed on the mountain side, a day is set apart on which the great letter receives its annual whitewash.

This year "M" Day will be observed May 7. Students will be excused from classes, but not from roll call which is to be made by the seniors. The senior class is in charge of the work, all students sharing in the task of the day. It is hoped that this year the program, successfully carried out in past years, will meet with favor. The general program for the day is as follows: All classes meet at the school at 9 o'clock on "M" Day morning. Here a roll call is taken, and the absentees names recorded for future reference. The necessary tools, such as rakes, picks, buckets, water cans, and the lime for whitewashing, are gotten from the storehouse, and the ascent is made up, with favor.

(Continued on Page 3.)

**MINES TO STAGE BASEBALL TOURNAMENT**

Because the students at the Mines are showing considerable interest in baseball, and because apparatus and equipment for track work are lacking, Coach McAuliffe and Professor Scott are planning to hold a round-robin baseball tournament. Four teams will be organized, two of these from the freshman class, and the other two from the upper classes. The players and captains of each team will be announced later.

The tournament will consist of a total of six games, played over a period of three weeks. Each team will play once a week. In order that the games will not interfere either with school or outside work, they will be played after school on Tuesdays and Thursdays. A lot of interesting competition is being developed in the coming tournament.

**MINES GYMNASIUM IS ASSURED**


For a number of years the Ore Diggers have carried on their athletics under the handicap of not having a first-class gymnasium. And the season just passed without any gym at all. During the past several months considerable work was done toward obtaining the necessary building, but the whole thing was more or less uncertain. It is now definitely decided that the structure is to be built, the state board of examiners having approved the plans on April 12.

The building will cost $150,000.00. It will be built of brick, and the roof will be of copper, it being similar in this latter respect to the new met- allurgical laboratory building. Formerly the mill contained much unused space, which has now been utilized by the establishment of the assaying department in the west half of the mill building.

The work was done under the direct supervision of Mr. M. F. Haley, who also drew up the plans for the changes in the mill. Mr. Haley has so rearranged the machinery that now it is possible to work according to any one of twelve different flow-sheets, while formerly the work was limited to only two flow-sheets.

Also the capacity of the mill has been increased five times. The improvement has been made possible not so much by replacing machinery as by utilizing the machines already in possession in a more efficient, time-saving manner. A great many convenient devices were designed and installed, making the entire mill an extremely well-coordinated aggregation of machinery.

In addition, space has been reserved for the installation of a hall mill and oil flotation machines. These are expected to be available for the mill in the near future. When entirely completed, the mill will be one of the most-up-to-the-minute schools in the country.

**MILLS ALTERATIONS NEARLY COMPLETED**

Changes Made Under Direction of Haley Result in Marked Improvement.

After many months of work expended in remodeling the mill, it is now practically ready for operation. Changes were started last June, and the work has been going on more or less intermittently since that time. Although it is not yet entirely complete, it is available for use by the seniors in metallurgical laboratory exercise.

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**SCHNOBELEN MINES REPRESENTATIVE IN ORATORICAL CONTEST**

By the process of personal elimination of all the other contestants, Ferno Schnoebelen of the freshman class, will represent the School of Mines at the Montana State Intercollegiate Oratorical Association's annual contest this year. Along in February quite a number were considering writing orations and trying for the medals offered by the English department, and for the right to go to the state contest. However, when it came to the actual work of preparing subjects the would-be orators dropped out one by one until Schnoebelen is the only one remaining.

His oration deals with the Indian question, and the treatment they are receiving on the reservations. Those who have read his effort say that it

(Continued on Page 3.)

**ANNUAL MEETING ATTENDED BY SIMONS**

Professor Reports Enjoyable Gathering at Bozeman.

Professor Simons attended the thirty-seventh annual meeting of the Montana Society of Professional Engineers, which was held at Bozeman April 10 to April 12, inclusive.

The first day was taken up in registering and renewing old acquaintances. Friday morning the members were shown through the canning factory and a flour mill, these being representative of two very important and quite extensive industries in Bozeman. In the afternoon they were shown the new buildings and other improvements that had been made at the college, which indicates that the money received by the institution has been expended wisely for scholastic purposes. In the evening the engineers were treated to a very splendid theatrical performance, it being the musical comedy, "Prince of Tonight," presented by the Loofter's Club of the college. Professor Simons states that it was one of the most finished performances he has had ever seen, either amateur or professional, the music, costumes, and acting being of the very best.

Saturday morning, at a meeting in the auditorium of the Engineering building, new officers and members were elected. Professor Simons was chosen president of the society. The election was followed by the annual report of the retiring president, Mr. L. D. Cokling, professor of civil engineering at Bozeman. Several interesting papers on engineering in Montana were then presented.

The annual meeting was concluded Saturday evening with a banquet, at which a number of interesting talks were made, among the speakers being President Atkinson, who spoke on "Engineering."

**ALUMNI NINE DEFEATS ORE Diggers**

Collegiate baseball made its first appearance in Butte this year when the Mines' Alumni defeated the Ore Diggers in a hard fought contest on the "Cinders," Sunday, April 13.

The Alumni have an experienced, hard-hitting aggregation which gave
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FOR YOUR THOUGHT

It seems to be the order of the day to investigate conditions and persons in prominent official circles, as is evidenced by the recent activities in the nation's capital. Servants of the public should welcome such inquiry, that is, if they have performed their duties efficiently and equitably. Systems of education should always be accessible for inspection by those who are interested in things social.

Perhaps it may prove illuminating and profitable to bring the process of investigation closer to the things in which we, as students, are vitally interested.

It must be admitted from the start that no students, as a class, are not supposed to know very much of anything, and that their judgment is presumed to be immature. But there are things that they realize very clearly and know exceedingly well. They know the difference between real ability and the pseudo-ability born of conceit; they can distinguish enthusiasm from carelessness; they feel the thrill of inspiration, and know the depression of discouragement; they recognize justice, and earnestly desire it.

As students we are subjected to periodical tests to determine whether we are doing school or work for pastures new. This process of selection is considered quite fair and proper by all concerned. Would it be less fair or less proper to demand similar tests of teachers to determine whether they are capable of taking sufficient interest in the welfare of the students, in the propagation of education, and in the prestige of the school, to retain their place on the faculty? Would it be presumptuous on the part of the students to desire for their leaders men of ability, and excelling in the high art of teaching? It is our opinion that students should have the right to demand such men. In other words, they should be given a real voice in shaping the policies of the institution in which they pursue their studies. A voice in the athletic and social life of the school is not sufficient, for in the last analysis these are not consequential. Representation in the active government of the institution is the essential requisite.

SENIOR NOTES

The class in economic geology spent the week of April 7 in underground field work. Tolley field work was done on the 2800-foot level of the Steward mine, under the direction of Prof. Ingalsbe. The underground trips were made possible through the courtesy of the A. C. M. Geological Department.

One of the features of the underground work was the intensely interesting argument by Messrs. Mower and Banghart, who treated skillfully and at length on the question, "What Color Is a Conglomerate?" We should be proud of the boys.

The ores which the seniors are to treat in the mill arrived last week. Work was started on them Wednesday afternoon, April 16. This work is to be continued every Wednesday and Friday afternoon until the best method of treatment is discovered. The class is under the supervision of Mr. Haley.

Scandal: Several members of the senior class have been seen hanging around the roller rink.

More scandal: Who sent Dennis those highly decorated letters?

JUNIOR NOTES

On Wednesday, April 2, the juniors met to discuss the possibilities of a metallurgy trip to Great Falls, and the probability of a junior prom. Six of the members, that is if Stefanides doesn't change his mind, signed a petition to journey to the land of Albin Jay. Others of the class may go if the roads are in traveling condition at the time. Several days would be spent in looking over and correcting certain defects in copper refining, and in noting the applications of hydraulics to various dams (not dams) on the Missouri.

If the trip should be made in cars, it has been suggested that we have a geologist accompany us and take advantage of the excellent geology scattered along the roadside.

A committee consisting of Marick, Greg, Moser and Walker was appointed to investigate the prom question.

There are rumors afloat that we're going to hold a stag party, which, to say the least, are very true. However, there is one great difficulty—we must charter a seaworthy craft to take us outside the three-mile limit.

The juniors on a "certain" afternoon sojourned to the domicile of Mr. Lukashenko, where he gave a very interesting lecture on "Falling Up." Luke claims he fell up, and to prove his assertion, showed a bruised hand, his assertion, showed a bruised hand, his assertion, showed a bruised hand. There are rumors afloat that we're going to hold a stag party, which, to say the least, are very true. However, there is one great difficulty—we must charter a seaworthy craft to take us outside the three-mile limit.

The junior class spent Thursday afternoon, April 10, at the Pittsumont smelter, to study the winning of metallic copper from its ores. Gene Haves, who has worked at the Pittsumont, acted as unofficial guide, and saw to it that nothing of interest was missed.

SOPHOMORE NOTES

The sophomore class enjoyed a very delightful evening Tuesday, April 1, having a dinner party at the New Fiden hotel. The dinner, itself a very delicious repast, was made doubly enjoyable by the talented members of the class who extended, themselves to entertain the bunch.

At the conclusion of the party a business meeting was held for the purpose of electing officers to succeed those who have left school. Mr. Rodgers was chosen president; Mr. Seabolt, vice-president; Mr. Martin, representative on the Dancing Club. The meeting was adjourned at midnight.

Friday, April 4, the sophomores journeyed to Anaconda to spend the week-end as guests of Mr. Tanner. The class was unanimous in saying that Mr. Tanner was a capable entertain host. Friday evening they enjoyed Il Trovatore at the Margaret opera house. Saturday morning the class went through the Anaconda smelter. This proved a very interesting excursion, as the guide explained in detail the process of smelting and refining. The afternoon was spent at the country club, where the members of the class had the pleasure of playing on Anaconda's fine golf links. In the evening the gang passed the time at a stag Mah Jong party. Early Sunday morning the class left for Moon lake, where most of the men found the fishing so good that they had little trouble in catching the limit. Upon returning to Anaconda, the class, with a whetted appetite, enjoyed a dinner such that only a thoughtful host could be capable of serving. The return to Butte was made lively by recalling the different incidents of the trip, and it was agreed by all that the occasion will be long remembered.

Wednesday noon, April 9, the sophomore class held a luncheon at the Thornton hotel. Among the important matters discussed at the meeting was the question of a class trip. It was decided that all points to be visited should be chosen on account of the educational values they afford and the Grand Canyon of the Colorado, Yellowstone, Glacier, Rainier and Zion national parks were among the places suggested as likely possibilities. One or more of these places

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the first of the seventh the Alumni broke away for four runs, which was followed up by three in the eighth, making the final count 9-3 in favor of the Alumni.

Another game has been scheduled with the Alumni for the Sunday following Easter, and the Ore Diggers are out for revenge.

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Montana State School of Mines

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ARTHUR DE CELLES

At a recent meeting of the Execu-
tive Committee of the Associated
Students of the School of Mines, it was
decided that in April of each year the
ex-president of The Acropolitan should
be succeeded by the associate editor.
The wisdom of this plan is at once ap-
parent, and a regular succession is thus
established. Under the old system with
decision and setting the precedent, we
chronicle the retirement of Mr. Arthur
De Celles as editor of The Acropolitan.
His untiring energy and skillful ef-
citement towards our pages. De Celles' personal sacrifice is fully ap-
preciated. We feel that his efforts in behalf of The Acropolitan have been of
immeasurable benefit to the Monta-
tana State School of Mines. We thank
him for his splendid work, and we
pledge our hearty co-operation to his
successor.

CAMPUS IMPROVEMENT

By Theodore Pilger, '12.

The business of miners consists
principally of dealing with rocks. It
may, therefore, be debatable whether a
mining school should not be entirely
surrounded by rocks. But even miners are human beings, and a human being
was not designed to look at rocks, more
rocks, and yet nothing but rocks. Man
does his best and is most at home
when he is surrounded by grass and
trees and vegetation. A man can
study better, learn more, play easier,
and relax more fully if the world looks
green around him.

The Montana State School of Mines
is well located in the world's greatest
mining city. It can produce the world's
finest mining engineers. It will soon
be recognized as the greatest mining
school in the world. Its laboratories
are well supplied with respect to the rocks which con-
stitute the main business of the miner,
even if it is poorly located with respect to the grasses and
the vegetation.

The administrative powers of the
school have devoted the funds at hand
to the more essential buildings and
equipment. They have worked won-
ers with little money. The grounds
should be developed into an attrac-
tive and pleasing campus, and it is
suggested that the upper campus in-
cluding the business building which
is to make our school campus attractive
to visitors, restful and pleasing to
students, and offering to prospective
students the lure of a real college
as well as the facilities of the
school.

The grounds of the school can be
surveyed and laid out in pleasing style
by a landscape gardener, providing for
full growth that can be reasonably an-
ticipated. After these plans have been
accepted and approved by the school
authorities, the junior class could make
their year distinctive by inaugurating
a yearly campaign of campus improve-
ment. The event should become a
yearly "week" in the spring. The local
business associations and students would doubtless cooperate with funds and otherwise to develop
"Mines Campus Week." The alumni
will be interested in this work, and
for this reason the Alumni Association is being
personally notified in the matter. When the
state authorities see the contrast, of the
one section of the campus which will have been improved, as compared with the rest of the present rock pile,
they will of their own accord offer
more funds to carry the good work on,
instead of having to be pursued, as at
present. Everybody is ready to help
those who are trying to help them-
seves.

PANNINGS

Willis Strang, '16, is assistant man-
ger of the Woolworth store at Seat-
tle, Wash.

W. A. Struthers, '23, has returned to
Butte from Chico, Sinaloa, Mexico.

Ray C. Stanaway, '22, has moved to New
Jersey and may take post-gradu-
ate work at Columbia. His address
is box 312, Metuchen, N. J.

Daniel Reardon, '07, died suddenly
in Los Angeles recently by Em-
met Cullity. Grupe's address is, care
Los Angeles, Calif.

Neil O'Donnell, '21, has moved from
Jerome, Ariz., to Los Angeles. He is
field engineer for J. B. Murray.

Charles W. Grupa, '12, who has been
"lost" these many years, was discov-
ered in Los Angeles recently by Em-
met Cullity. Grupa's address is, care
Lucian Newton, United Casting Co.,
Los Angeles, Calif.

George Fowler, '12, writes that he has
been visiting at the Paul Billings
ranch near Seattle the past month
and is now leaving there for a two
month's visit in his old home state
that he will return to Salt Lake for
an operation upon his foot that was
crushed last fall during a mine exa-
imination.

The Occurrence of Tin and
Precious Metals in Butte

(Continuation from last month of a
paper by Murl H. Gidel, presented to
the Montana Society of Engineers at
Butte, Montana.)

USES OF THE PRECIOUS METALS

It seems rather unnecessary to go
into details of the properties and uses
of such universally known metals as
silver and gold, and it will suffice to
repeat only a few things regarding them
which may have slipped our
minds.

Silver. Silver more plentiful it
would be our leading industrial non-
errous metal. Next to gold it is the
most malleable and ductile metal and
may be hammered into leaves only
20 times finer than the finest
human hair. Silver is also the most
perfect conductor of heat and elec-
tricity that we have, leading copper
in these qualities, and is for that reason
usually alloyed with copper in order
to obtain the necessary hardness.
"Sterling silver," which is the stand-
ard silver alloy used in the arts, is
fixed by law to contain 925 parts of
silver and 75 parts of copper.

Gold: Gold is the most malleable
and ductile of all metals, gold leaf
0.00008 of an inch thick being obtained
can be drawn into a wire 40 miles
long, while gold wires as fine as a
spider's web have been drawn. Gold
is one of the heaviest of metals, being
9.1 times as heavy as water and is a
quarter times as heavy as copper.
Pure gold is very soft, not much
harder than soft lead, and is too soft
to be used commercially in the pure
state. For this reason it is usually alloyed with either silver or copper,
which increases the strength with but little effect on the malleability or duct-
ility of the metal. In the jewelry
trade pure 100% gold is called 24
carats fine, and the fineness of gold
alloys is expressed in terms of carats
with gold in 24 parts of gold and 18 carats being 75% pure.

Platinum and Palladium: It has
been estimated that there is in the
United States about 1,000,000 tonnes
of platinum and its allued metals in
the shape of manufactured products,
and that the normal requirement calls
for about 178,000 ounces of new metal
yearly. The average consumption of
fallandium amounts to about 18,000
ounces annually.

Platinum is a remarkable metal.
Next to gold and silver it is the most
valuable and the malleability that we
have and it can readily be welded at
a high temperature. It has, however,
a much higher melting point than either silver or gold, melting at 3191°F.

Hydrometallurgy is the name of the
parts of the business which gives
advantage to the world's greatest
mining school. It will have been improved, as compared

The Canadian Pacific's new slogan,
"See America Thirst," has induced a
lot of Canadians to spend their vaca-

The Acropolitan's old slogan,
"Societies Brand Clothes" has
induced a lot of Canadians to spend their vaca-

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